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SPECIES COMPOSITION OF INDUSTRIAL TRAWL FISH LANDINGS IN NEW ENGLAND, 1958

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UNITED STATES DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE

United States Department of the Interior, Fred A. Seaton, Secretary
Fish and Wildlife Service, Arnie J. Suomela, Commissioner
Bureau of Commercial Fisheries, Donald L. McKernan, Director

SPECIES COMPOSITION OF INDUSTRIAL TRAWL-FISH LANDINGS IN NEW ENGLAND, 1958

by

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United States Fish and Wildlife Service
Special Scientific Report--Fisheries No. 346

Washington, D. C.
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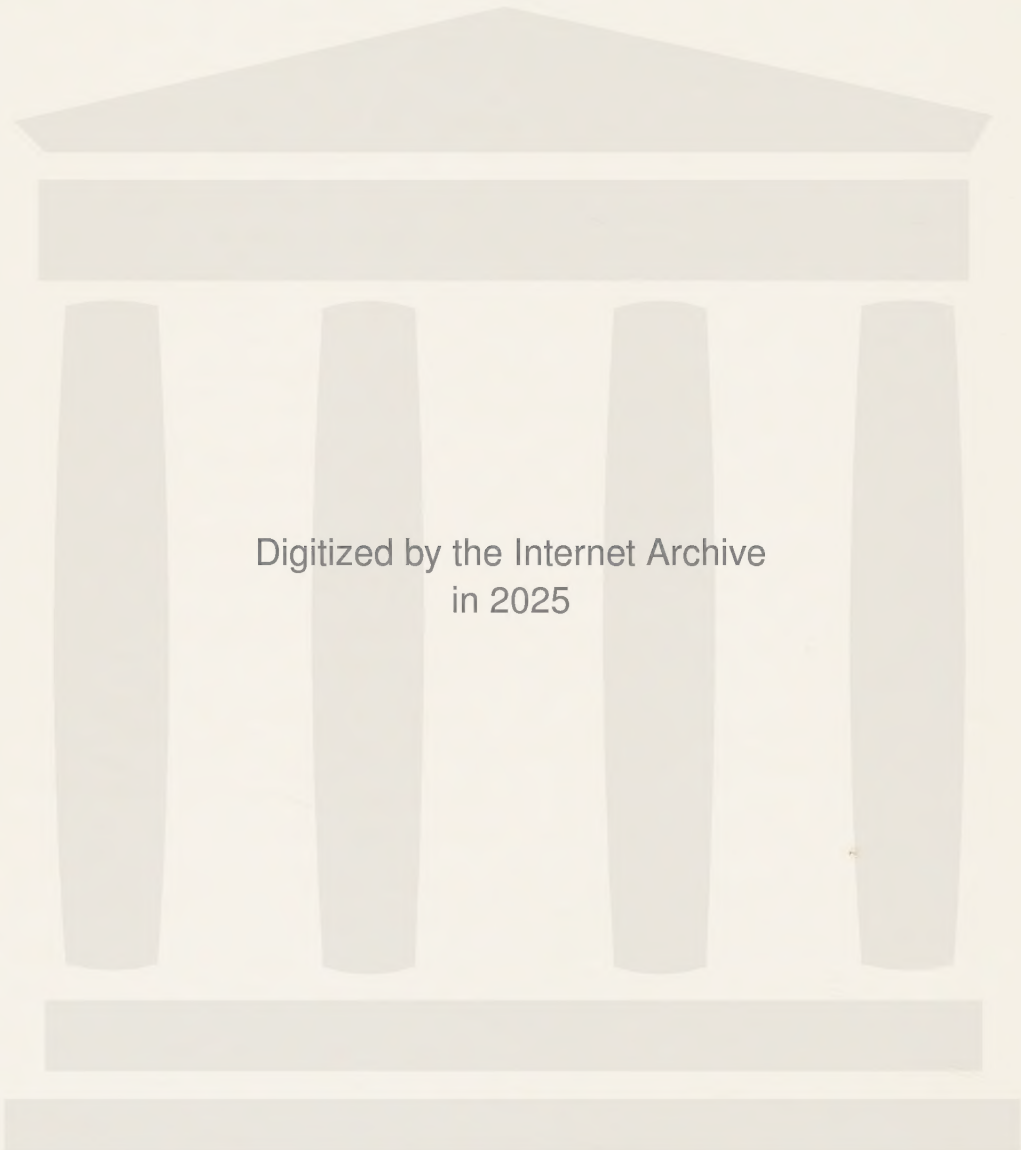

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SPECIES COMPOSITION OF INDUSTRIAL TRAWL-FISH LANDINGS IN NEW ENGLAND, 1958

by

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ABSTRACT

Data are presented on the species composition of the industrial trawl-fish catch landed at New England ports in 1958. The pounds landed and percent by weight of the species taken for each of the principal fishing areas are given by month and port, with appropriate summaries.

INTRODUCTION

The species composition of the landings of the industrial trawl fishery of New England for 1958 is presented in this report. These data were developed to help answer the many questions asked by the fishing industry and the interested public about the composition of these catches.

Industrial fish are, for the most part, utilized in the production of fish meal and homogenized condensed fish--products that are used as additives to poultry and livestock rations. They have been valued as an inexpensive source of protein, as well as for their "unidentified growth factor." The controversies that have developed over the industrial fishery usually have involved charges that excessive quantities of valuable food species and very small fishes are taken. The degree to which this may or may not be true is a matter of concern to the U. S. Bureau of Commercial Fisheries as well as to the fishing industry. The information in this report is presented in such a manner as to permit an evaluation of the potential effects of this fishery on any or all of the fishes of commercial importance in New England waters.

The data are presented in the same manner as in the 1957 report.[1] The remarks in that report with regard to manner of sampling and fleet activities apply as well to this report.

Landings of industrial fish dropped considerably in 1958 (fig. 1), totaling

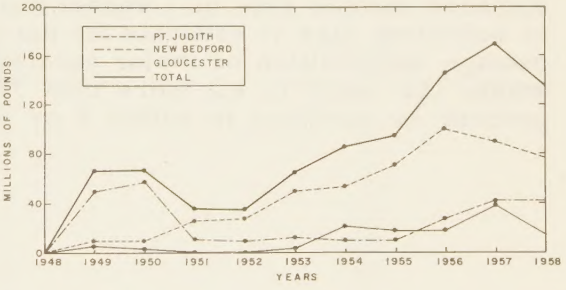

Figure 1.--Landings of industrial fish at Point Judith, New Bedford, and Gloucester, and the total landings, 1949 through 1958.

[1] Edwards, Robert L. 1958. Species composition of the industrial trawl landings in New England, 1957. United States Department of the Interior, U. S. Fish and Wildlife Service, Special Scientific Report--Fisheries No. 266.

only 137 million pounds, whereas in 1957, 168 million pounds were landed. Of the 1958 total, 78 million pounds were landed at Point Judith, R. I., 43 million pounds at New Bedford, Mass., and 16 million pounds at Gloucester, Mass. The greatest decrease in landings was at Gloucester, where 37 million pounds were landed in 1957.

The decrease in total landings at Point Judith appears to be the result of a slight decrease in availability of certain species, among them the silver hake, and an influx of large numbers of swordfish which diverted the fleet's attention from industrial fish during the summer. The relative decrease in abundance of silver hake in the landings was general throughout New England in 1958. The percentage contribution of silver hake to the industrial catch dropped from 23.0 percent in 1957 to 15.9 percent in 1958. This change in relative abundance occurred in all but one of the general areas listed in table 17 and is by far the most significant change observed in these 2 years.

SAMPLING PROCEDURE

Since the previous report, further research has been done on the validity of the sampling procedure. This research indicated that the present standard sample size of 1 bushel was of sufficient size to estimate the percentage composition of major species within the catch (i. e., more than 30 percent by number) to within 4 or 5 percent, and that any further significant increase in precision would involve a sample so large as to be impractical.

The areas used in reporting the data are indicated in figure 2. The data presented for these areas do not represent the ultimate detail of our interview information; they are syntheses of data from many individual fishing grounds that share some degree of ecological similarity.

Figure 2.--Industrial fishery areas referred to in this report.

TABLES

TABLE 1.--LANDINGS AND NUMBER OF TRIPS, BY MONTH AND FISHING AREA, OF INDUSTRIAL TRAWL-FISH VESSELS AT POINT JUDITH, R. I., 1958

[In thousands of pounds]

Month	Offshore		Inshore		No Mans		Total	
	Pounds	Trips	Pounds	Trips	Pounds	Trips	Pounds	Trips
January	598	49	572	96	--	--	1,170	145
February	782	90	311	108	--	--	1,093	198
March	925	77	660	156	80	8	1,665	241
April	4,609	178	426	96	2,253	48	7,288	322
May	4,524	76	747	184	10,331	173	15,602	433
June	2,841	99	1,938	282	6,310	105	11,089	486
July	1,280	29	1,722	194	2,139	61	5,141	284
August	2,189	66	2,233	188	2,819	89	7,241	343
September	963	30	3,873	279	4,171	129	9,007	438
October	4,644	140	3,365	252	74	3	8,083	395
November	2,439	102	4,339	298	941	30	7,719	430
December	610	66	1,647	234	452	38	2,709	338
Total	26,404	1,002	21,833	2,367	29,570	684	77,807	4,053

TABLE 2.--LANDINGS AND NUMBER OF TRIPS, BY MONTH, OF INDUSTRIAL TRAWL-FISH VESSELS AT NEW BEDFORD, MASS., 1958

[In thousands of pounds]

Month	Pounds	Trips
January	176	15
February	347	20
March	803	32
April	5,251	114
May	15,106	230
June	9,520	197
July	2,923	89
August	3,091	90
September	1,414	49
October	1,677	51
November	2,057	55
December	284	17
Total	42,649	959

Note.--At least 90 percent of landings from No Mans area.

TABLE 3.--LANDINGS AND NUMBER OF TRIPS, BY MONTH AND FISHING AREA, OF INDUSTRIAL TRAWL-FISH VESSELS AT GLOUCESTER, MASS., 1958

[In thousands of pounds]

Month	Ipswich		Stellwagen		Nauset		Southern Maine		Total	
	Pounds	Trips	Pounds	Trips	Pounds	Trips	Pounds	Trips	Pounds	Trips
January	86	2	--	--	--	--	--	--	86	2
February	25	3	--	--	--	--	--	--	25	3
March	--	--	--	--	--	--	--	--	--	--
April	38	5	--	--	--	--	--	--	38	5
May	194	9	194	9	1,270	59	129	6	1,787	83
June	835	69	796	47	1,768	46	26	2	3,425	164
July	186	18	101	6	260	3	--	--	547	27
August	168	8	410	23	1,707	58	34	2	2,319	91
September	216	15	409	22	1,836	86	--	--	2,461	123
October	293	23	772	42	2,515	103	--	--	3,580	168
November	151	16	372	26	709	57	--	--	1,232	99
December	71	4	841	46	--	--	21	2	933	52
Total	2,263	172	3,895	221	10,065	412	210	12	16,433	817

TABLE 4.--SPECIES COMPOSITION, IN PERCENT BY WEIGHT, OF POINT JUDITH INDUSTRIAL TRAWL-FISH LANDINGS FROM THE OFFSHORE AREA, BY MONTHS, 1958

[+ indicates less than 0.1 percent]

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Number of samples	4	9	10	15	13	1	2	2	[1] 6	5	4	2
Red hake	0.6	2.6	0.5	28.2	60.8	28.9	27.2	43.8	25.1	35.3	26.7	2.2
White hake	0.8	0.1	--	--	--	--	--	+	0.1	2.1	0.5	--
Silver hake	3.8	2.4	0.7	0.7	4.0	30.9	33.7	27.2	47.8	41.6	6.9	9.8
Little skate	5.6	10.0	13.7	12.2	2.2	10.0	13.4	2.4	8.0	7.8	8.2	19.2
Big skate	13.9	20.3	14.0	11.2	1.2	--	--	3.3	--	1.7	6.4	8.2
Immature skate	0.7	--	--	1.4	--	--	--	--	--	--	--	--
Spotted hake	--	--	--	--	--	--	--	--	--	--	0.1	--
Eel pout	9.1	27.7	32.7	13.2	19.5	25.6	14.6	1.6	--	1.2	0.5	3.5
Longhorn sculpin	2.2	2.4	6.6	1.8	1.5	--	--	0.3	--	0.1	0.8	0.6
Sea robin	--	--	--	--	0.4	--	--	--	10.2	2.5	6.3	+
Striped sea robin	--	--	--	--	--	--	--	--	0.2	--	--	--
Angler	6.9	13.8	16.3	15.9	5.5	--	4.6	11.4	1.9	0.8	2.6	9.0
Four-spot flounder	0.7	+	0.5	0.4	0.5	1.2	0.8	1.2	0.6	--	0.3	1.2
Sand flounder	7.0	5.2	2.2	1.8	0.3	--	--	--	0.4	+	1.0	+
Gulf stream flounder	--	0.3	--	--	--	--	--	--	0.1	--	--	--
Yellowtail flounder	10.1	5.8	2.5	2.3	1.1	2.2	--	0.1	0.1	--	0.5	--
Blackback flounder	0.1	0.2	+	+	0.1	--	1.2	2.1	0.7	0.6	0.2	--
Sea raven	--	--	--	0.2	0.3	--	--	--	--	--	--	--
Spiny dogfish	24.2	3.7	4.0	7.5	1.7	--	--	--	--	--	38.0	42.2
Smooth dogfish	--	--	--	--	0.5	--	--	5.2	--	--	--	--
Barndoor skate	8.1	4.1	1.8	2.4	--	--	--	--	--	0.5	0.3	+
Alewife	5.6	1.0	3.6	0.4	+	1.2	0.6	0.6	--	3.2	0.3	3.6
Herring	0.5	0.3	0.8	0.3	0.2	--	--	--	--	0.1	--	--
Scup	--	--	--	--	--	--	--	--	1.6	1.7	--	0.3
Butterfish	--	--	--	0.1	--	--	3.8	0.6	3.2	0.5	0.3	--
Cunner	--	--	--	--	--	--	--	+	--	+	--	--
Rockling	--	--	--	--	--	--	+	--	--	+	--	--

[1] Based on 1955, 1956, and 1957 samples.

TABLE 5.--SPECIES COMPOSITION, IN POUNDS, OF POINT JUDITH INDUSTRIAL TRAWL-FISH LANDINGS FROM THE OFFSHORE AREA, BY MONTHS, 1958

[In thousands of pounds. + indicates less than 1,000 pounds]

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.[1]	Oct.	Nov.	Dec.
Red hake	4	20	5	1,300	2,751	821	348	959	242	1,639	651	13
White hake	5	1	--	--	--	--	--	+	1	98	12	--
Silver hake	23	19	6	32	180	878	431	595	460	1,932	168	60
Little skate	83	78	127	562	100	284	172	53	77	362	200	117
Big skate	4	159	130	516	54	--	--	72	--	79	156	50
Immature skate	--	--	--	65	--	--	--	--	--	--	--	--
Spotted hake	54	217	302	608	882	727	187	35	--	56	12	21
Eel pout	13	19	61	83	68	--	--	7	--	5	20	4
Longhorn sculpin	--	--	--	--	18	--	--	--	98	116	154	+
Sea robin	--	--	--	--	--	--	--	--	2	--	--	--
Striped sea robin	41	108	151	733	249	--	59	250	18	37	63	55
Angler	4	+	5	18	23	34	10	26	6	--	7	7
Four-spot flounder	42	41	20	83	14	--	--	--	4	+	24	+
Sand flounder	--	2	--	--	--	--	--	--	1	--	--	--
Gulf stream flounder	60	45	23	106	50	63	--	2	1	--	12	--
Yellowtail flounder	1	2	+	+	5	--	15	46	7	28	5	--
Blackback flounder	--	--	--	9	14	--	--	--	--	--	--	--
Sea raven	145	29	37	346	77	--	--	--	--	--	927	257
Spiny dogfish	--	--	--	--	23	--	--	114	--	--	--	--
Smooth dogfish	48	32	17	111	+	--	--	--	--	23	7	+
Barndoor skate	33	8	33	18	+	34	8	13	--	149	7	22
Alewife	3	2	7	14	9	--	--	--	--	5	--	--
Herring	--	--	--	--	--	--	--	--	15	79	+	2
Scup	--	--	--	5	--	--	49	13	31	23	7	--
Butterfish	--	--	--	--	--	--	--	--	--	+	--	--
Cunner	--	--	--	--	--	--	+	--	--	+	--	--
Three-bearded rockling	--	--	--	--	--	--						
Total	596	782	924	4,609	4,517	2,841	1,279	2,185	963	4,631	2,434	608

[1] Based on 1955, 1956, and 1957 samples.

TABLE 6.--SPECIES COMPOSITION, IN PERCENT BY WEIGHT, OF POINT JUDITH INDUSTRIAL TRAWL-FISH LANDINGS FROM THE INSHORE AREA, BY MONTHS, 1958.

[+ indicates less than 0.1 percent]

Species	Jan.	Feb.	March	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Number of samples	3	14	18	10	16	28	26	16	19	15	22	6
Red hake	2.1	0.6	0.4	10.1	34.4	36.5	17.7	10.0	13.3	25.8	32.1	20.5
White hake	--	--	--	--	--	--	+	--	+	--	0.8	--
Silver hake	3.9	1.6	0.2	+	6.3	11.7	33.5	36.3	31.0	22.4	18.4	26.0
Little skate	10.3	9.3	11.8	4.5	7.7	12.9	9.2	9.9	10.8	7.2	5.2	11.0
Big skate	17.5	14.1	7.0	4.7	6.8	6.7	3.4	2.8	7.0	7.4	8.8	3.6
Spotted hake	--	--	--	--	--	--	--	--	0.1	+	+	--
Eel pout	7.8	48.7	58.5	53.2	20.8	6.3	3.0	0.2	+	--	0.1	0.2
Longhorn sculpin	1.7	4.9	7.9	9.4	5.4	0.8	0.1	+	--	0.6	4.3	3.9
Sea robin	--	--	--	--	0.8	0.2	1.8	16.0	13.0	1.7	--	--
Striped sea robin	--	--	--	--	--	0.1	0.4	0.3	0.4	+	--	--
Angler	8.9	4.5	2.2	1.8	6.5	17.3	18.0	9.7	9.7	8.2	14.1	6.5
Four-spot flounder	--	--	--	--	0.5	1.7	1.9	1.2	0.6	0.4	0.1	--
Sand flounder	1.5	0.5	0.9	0.2	0.1	0.2	1.2	0.2	1.1	0.7	0.4	3.3
Yellowtail flounder	--	--	0.1	0.1	--	--	--	--	--	--	--	--
Blackback flounder	--	0.4	0.2	0.5	0.5	2.5	3.4	0.8	1.0	+	+	0.2
Blueback	--	--	--	--	--	--	--	--	--	--	+	--
Sea raven	--	--	--	--	0.1	0.1	0.1	0.2	--	0.3	--	--
Spiny dogfish	15.9	--	0.6	13.8	8.6	--	0.5	0.3	2.5	22.1	11.4	7.9
Smooth dogfish	--	--	--	--	0.4	1.6	2.5	4.9	7.0	1.3	--	9.1
Barndoor skate	--	0.1	0.4	--	0.2	--	--	--	0.2	--	0.4	--
Brier skate	--	--	--	--	--	--	+	--	--	--	--	--
Shad	--	--	--	--	--	--	--	--	--	--	0.1	--
Alewife	28.8	7.8	1.4	0.4	0.6	0.1	0.7	0.1	0.4	0.3	3.4	7.5
Menhaden	--	--	--	--	--	--	--	0.1	--	--	--	--
Herring	1.7	6.8	8.2	1.2	--	--	--	--	0.3	--	--	0.2
Scup	--	--	--	--	0.1	0.7	0.8	1.4	0.6	1.0	--	--
Butterfish	--	--	--	--	--	0.2	1.8	5.5	0.8	0.1	0.1	0.1
Sea bass	--	--	--	--	--	+	0.1	--	--	--	--	--
Mackerel	--	--	--	--	--	--	+	--	--	--	--	--
Cunner	--	--	--	--	0.3	0.2	+	--	+	0.3	0.1	--
Three-bearded rockling	--	--	+	--	0.1	--	--	+	+	--	--	--

TABLE 7.--SPECIES COMPOSITION, IN POUNDS, OF POINT JUDITH INDUSTRIAL TRAWL-FISH LANDINGS FROM THE INSHORE AREA, BY MONTHS, 1958

[In thousands of pounds. + indicates less than 1,000 pounds]

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Red hake	12	2	3	43	257	707	305	223	515	868	1,393	338
White hake	22	--	--	--	--	--	+	--	+	--	35	--
Silver hake	--	5	1	+	47	228	577	811	1,201	754	798	428
Little skate	59	29	78	19	58	250	158	221	418	242	226	181
Big skate	100	44	46	20	51	130	58	63	271	249	382	59
Spotted hake	--	--	--	--	--	--	--	--	4	+	+	--
Eel pout	45	151	386	227	155	122	52	4	+	--	4	3
Longhorn sculpin	9	15	52	40	40	16	2	+	--	20	187	64
Sea robin	--	--	--	--	6	4	31	357	503	57	--	--
Striped sea robin	--	--	--	--	--	2	7	7	15	+	--	--
Angler	51	14	15	8	49	335	310	217	376	276	612	107
Four-spot flounder	--	--	--	--	4	33	33	27	23	13	4	--
Sand flounder	9	2	6	1	1	4	20	4	43	24	17	54
Yellowtail flounder	--	--	1	+	--	--	--	--	--	--	--	--
Blackback flounder	--	1	3	2	4	48	58	18	39	+	+	3
Blueback	--	--	--	--	--	--	--	--	--	--	+	--
Sea raven	--	--	--	--	1	2	2	4	--	10	--	--
Spiny dogfish	91	--	4	59	64	--	9	7	97	744	495	130
Smooth dogfish	--	--	--	--	3	31	43	109	271	44	--	150
Barndoor skate	--	+	3	--	1	--	--	--	8	--	17	--
Brier skate	--	--	--	--	--	--	+	--	--	--	--	--
Shad	--	--	--	--	--	--	--	--	--	--	4	--
Alewife	165	24	9	2	4	2	12	2	15	10	148	124
Menhaden	--	--	--	--	--	--	--	2	--	--	--	--
Herring	8	21	54	5	--	--	--	--	12	--	--	3
Scup	--	--	--	--	1	14	14	31	23	34	--	--
Butterfish	--	--	--	--	--	4	31	123	31	3	4	2
Sea bass	--	--	--	--	--	+	2	--	--	--	--	--
Mackerel	--	--	--	--	--	--	+	--	--	--	--	--
Cunner	--	--	--	--	2	4	+	--	+	10	4	--
Three-bearded rockling	--	--	+	--	1	--	--	+	+	--	--	--
Total	571	308	661	426	749	1,936	1,724	2,230	3,865	3,358	4,330	1,646

TABLE 8.--SPECIES COMPOSITION, IN PERCENT BY WEIGHT, OF INDUSTRIAL TRAWL-FISH LANDINGS FROM THE NO MANS AREA, BY MONTHS, 1958

[Samples taken from New Bedford and Point Judith]

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Number of samples			[1] 6	5	7	3	3	1	1	1	[1] 8	2
Red hake	--	--	4.9	26.8	86.0	51.6	42.3	74.7	1.4	33.8	52.2	4.8
White hake	--	--	--	--	--	--	--	--	--	--	0.6	--
Silver hake	--	--	0.4	--	10.3	27.3	24.8	16.9	4.3	16.4	10.4	8.4
Little skate	--	--	11.8	8.4	0.5	4.8	7.2	--	7.7	10.3	9.0	8.6
Big skate	--	--	27.9	5.2	--	4.0	2.3	--	71.6	--	3.9	16.2
Immature skate	--	--	--	0.2	--	--	--	--	0.8	--	--	2.0
Eel pout	--	--	27.9	27.1	0.9	0.4	1.4	--	--	--	--	0.8
Longhorn sculpin	--	--	12.1	5.7	0.2	--	--	0.7	--	--	1.3	1.6
Sea robin	--	--	--	--	0.4	--	--	--	3.0	--	4.1	--
Angler	--	--	6.0	3.0	0.8	5.3	--	--	8.1	--	2.6	6.0
Four-spot flounder	--	--	--	--	0.1	2.3	0.9	2.0	2.6	1.8	1.0	1.8
Sand flounder	--	--	1.4	1.0	0.1	1.3	--	--	--	--	0.7	3.9
Yellowtail flounder	--	--	0.2	0.1	0.5	--	--	--	--	1.2	0.2	0.4
Blackback flounder	--	--	--	--	0.2	1.2	--	--	--	--	--	--
Spiny dogfish	--	--	2.2	16.6	--	--	--	--	--	15.8	8.8	23.2
Smooth dogfish	--	--	--	--	--	--	--	--	--	--	0.3	--
Barndoor skate	--	--	4.2	5.6	--	--	--	2.5	--	2.3	1.2	1.0
Brier skate	--	--	--	0.1	--	--	--	--	--	--	--	--
Conger eel	--	--	--	--	--	--	--	--	--	--	0.2	--
Alewife	--	--	0.1	0.1	--	0.7	1.8	--	--	1.5	0.4	18.6
Herring	--	--	--	0.1	--	--	--	--	--	--	0.3	--
Scup	--	--	--	--	--	0.9	--	--	--	15.2	0.2	--
Butterfish	--	--	--	--	--	0.3	19.3	3.2	0.5	1.5	1.6	2.4
Cunner	--	--	--	--	--	--	--	--	--	--	0.7	--

[1] Based on 1955, 1956, 1957 samples.

TABLE 9.--SPECIES COMPOSITION, IN POUNDS OF NEW BEDFORD INDUSTRIAL TRAWL-FISH LANDINGS FROM THE NO MANS AREA, BY MONTHS, 1958

[In thousands of pounds]

Species	Jan.[1]	Feb.[2]	Mar.[1]	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.[1]	Dec.
Red hake	--	1	39	1,407	12,991	4,912	1,236	2,309	20	567	1,074	14
White hake	--	--	--	--	--	--	--	--	--	--	12	--
Silver hake	--	16	3	--	1,556	2,599	725	522	61	275	214	24
Little skate	42	99	95	441	76	457	210	--	109	173	185	24
Big skate	92	15	224	273	--	381	67	--	1,012	--	80	46
Immature skate	--	--	--	11	--	--	--	--	11	--	--	6
Eel pout	18	66	224	1,423	136	38	41	--	--	--	--	--
Longhorn sculpin	16	66	97	299	30	--	--	22	--	--	27	2
Sea robin	--	1	--	--	60	--	--	--	42	--	84	5
Angler	--	1	48	158	121	505	--	--	115	--	53	17
Four-spot flounder	--	--	--	--	15	219	26	62	37	30	21	5
Sand flounder	8	42	11	53	15	124	--	--	--	--	14	11
Yellowtail flounder	--	36	2	5	76	--	--	--	--	20	4	1
Blackback flounder	--	--	--	--	30	114	--	--	--	--	--	--
Spiny dogfish	--	--	18	872	--	--	--	--	--	265	181	66
Smooth dogfish	--	--	--	--	--	--	--	--	--	--	6	--
Barndoor skate	--	--	34	294	--	--	--	77	--	39	25	3
Brier skate	--	--	--	5	--	--	--	--	--	--	--	--
Alewife	--	--	1	5	--	67	53	--	--	25	8	53
Herring	--	3	--	5	--	--	--	--	--	--	6	--
Scup	--	--	--	--	--	86	--	--	--	255	4	--
Butterfish	--	--	--	--	--	29	564	99	7	25	33	7
Cod	--'	1	--	--	--	--	--	--	--	--	--	--
Three-bearded rockling	--	--	--	--	--	--	--	--	--	--	14	--
Conger eel	--	--	--	--	--	--	--	--	--	--	4	--
Total	176	347	796	5,251	15,106	9,531	2,922	3,091	1,414	1,674	2,049	284

[1] Based on combined sample data for 1955, 1956, and 1957.
[2] Based on 1957 sample only.

TABLE 10.--SPECIES COMPOSITION, IN POUNDS, OF POINT JUDITH INDUSTRIAL FISH LANDINGS FROM THE NO MANS AREA, BY MONTHS, 1958

[In thousands of pounds. + indicates less than 1,000 pounds]

Species	Jan.	Feb.	Mar.[1]	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.[1]	Dec.
Red hake	--	--	4	604	8,885	3,256	905	2,106	58	25	491	22
White hake	--	--	--	--	--	--	--	--	--	--	6	--
Silver hake	--	--	+	--	1,064	1,723	530	476	179	12	98	38
Little skate	--	--	9	189	52	303	154	--	321	8	85	39
Big skate	--	--	22	117	--	252	49	--	2,986	--	37	73
Immature skate	--	--	--	5	--	--	--	--	33	--	--	9
Eel pout	--	--	22	611	93	25	30	--	--	--	--	4
Longhorn sculpin	--	--	10	128	21	--	--	20	--	--	12	7
Sea robin	--	--	--	--	41	--	--	--	125	--	39	--
Angler	--	--	5	68	83	334	--	--	338	--	24	27
Four-spot flounder	--	--	--	--	10	145	19	56	108	1	9	8
Sand flounder	--	--	1	23	10	82	--	--	--	--	7	18
Yellowtail flounder	--	--	+	2	52	--	--	--	--	1	2	2
Blackback flounder	--	--	--	--	21	76	--	--	--	--	--	--
Spiny dogfish	--	--	2	374	--	--	--	--	--	12	83	105
Smooth dogfish	--	--	--	--	--	--	--	--	--	--	3	--
Barndoor skate	--	--	3	126	--	--	--	70	--	2	11	5
Brier skate	--	--	--	2	--	--	--	--	--	--	--	--
Alewife	--	--	+	2	--	--	39	--	--	1	4	84
Herring	--	--	--	2	--	--	--	--	--	--	3	--
Scup	--	--	--	--	--	57	--	--	--	11	2	--
Butterfish	--	--	--	--	--	19	413	90	21	1	15	11
Cunner	--	--	--	--	--	--	--	--	--	--	7	--
Conger eel	--	--	--	--	--	44	--	--	--	--	2	--
Total	--	--	78	2,253	10,332	6,316	2,139	2,818	4,169	74	940	452

[1] Based on 1955, 1956 and 1957 sample data.

TABLE 11.--SPECIES COMPOSITION, IN PERCENT BY WEIGHT, OF GLOUCESTER TRAWL-FISH LANDINGS FROM THE IPSWICH AREA, BY MONTHS, 1958

[+ indicates less than 0.1 percent]

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.[1]	Oct.[1]	Nov.[1]	Dec.
Number of samples	--	--	--	--	1	4	1	1	1	4	2	--
Red hake	--	--	--	--	72.0	65.9	86.0	46.8	42.4	33.7	23.6	--
Silver hake	--	--	--	--	5.4	2.5	4.2	8.6	37.9	25.2	36.4	--
Little skate	--	--	--	--	--	0.1	--	--	--	2.0	0.4	--
Big skate	--	--	--	--	1.9	--	--	--	--	0.5	0.9	--
Haddock	--	--	--	--	--	2.9	1.3	0.8	5.5	0.4	0.2	--
Eel pout	--	--	--	--	--	5.2	--	2.3	--	0.9	1.1	--
Longhorn sculpin	--	--	--	--	0.5	6.0	--	--	0.1	--	--	--
Sea robin	--	--	--	--	--	--	--	--	--	--	+	--
Angler	--	--	--	--	14.3	1.4	--	13.4	--	9.3	6.9	--
Ocean perch	--	--	--	--	5.0	0.2	--	0.3	--	0.1	0.6	--
Dabs	--	--	--	--	0.6	2.7	0.2	2.8	1.5	18.4	9.2	--
Yellowtail flounder	--	--	--	--	--	2.3	--	--	--	--	--	--
Greysole	--	--	--	--	0.3	0.1	--	0.8	--	--	0.6	--
Sea raven	--	--	--	--	--	--	--	--	--	--	+	--
Spiny dogfish	--	--	--	--	--	2.0	--	5.2	--	--	--	--
Smooth dogfish	--	--	--	--	--	--	--	--	--	--	3.5	--
Shad	--	--	--	--	--	0.3	--	2.0	--	0.2	5.4	--
Bluebacks	--	--	--	--	--	1.2	7.7	12.0	--	4.9	10.4	--
Herring	--	--	--	--	--	4.8	--	3.4	11.9	1.4	0.2	--
Butterfish	--	--	--	--	--	--	0.5	--	--	0.1	--	--
Cod	--	--	--	--	--	2.3	--	--	--	0.6	0.3	--
Three-bearded rockling	--	--	--	--	--	0.2	--	1.4	0.7	1.9	0.2	--

[1] Based on 1957 samples.

TABLE 12.--SPECIES COMPOSITION, IN POUNDS, OF GLOUCESTER INDUSTRIAL TRAWL-FISH LANDINGS FROM THE IPSWICH AREA, BY MONTHS, 1958

[In thousands of pounds. + indicates less than 1,000 pounds]

Species	Jan.[1]	Feb.[1]	Mar.	Apr.[1]	May	June	July	Aug.	Sept.[2]	Oct.[2]	Nov.[2]	Dec.[3]
Red hake	62	18	--	27	232	567	160	95	91	99	36	22
Silver hake	5	1	--	2	17	22	8	17	82	74	55	33
Little skate	--	--	--	--	--	1	--	--	--	6	1	+
Big skate	2	+	--	1	6	--	--	--	--	1	1	1
Haddock	--	--	--	--	--	25	2	2	12	1	+	+
Eel pout	--	--	--	--	--	45	--	5	--	3	2	1
Longhorn sculpin	+	+	--	+	2	52	--	--	+	--	--	--
Sea robin	--	--	--	--	--	--	--	--	--	--	--	+
Angler	12	4	--	5	46	12	--	27	--	27	10	6
Ocean perch	4	1	--	2	16	2	--	1	--	+	1	1
Dabs	1	+	--	+	2	23	+	6	3	54	14	8
Yellowtail flounder	--	--	--	--	--	20	--	--	--	--	--	--
Blackback flounder	--	--	--	--	--	1	--	--	--	--	--	--
Greysole	+	+	--	+	1	--	--	2	--	--	1	1
Sea raven	--	--	--	--	--	--	--	--	--	--	--	+
Spiny dogfish	--	--	--	--	--	17	--	11	--	--	--	--
Smooth dogfish	--	--	--	--	--	--	--	--	--	--	5	3
Shad	--	--	--	--	--	3	--	4	--	1	8	5
Bluebacks	--	--	--	--	--	10	14	24	--	14	16	10
Menhaden	--	--	--	--	--	--	--	7	--	--	--	--
Herring	--	--	--	--	--	41	--	--	26	4	+	+
Butterfish	--	--	--	--	--	--	1	--	--	+	--	--
Cod	--	--	--	--	--	20	--	--	--	2	--	--
Three-bearded rockling	--	--	--	--	--	2	--	3	2	6	+	+
Total	86	24	--	37	322	863	185	204	216	292	150	91

[1] Based on May sample data.
[2] Based on 1957 samples.
[3] Based on November sample.

TABLE 13.--SPECIES COMPOSITION, IN PERCENT BY WEIGHT, OF GLOUCESTER INDUSTRIAL TRAWL-FISH LANDINGS FROM THE STELLWAGEN BANK AREA, BY MONTH, 1958

Species	Jan.	Feb.	Mar.	April	May	June	July[1]	Aug.	Sept.	Oct.	Nov.[1]	Dec.[1]
Number of samples	--	--	--	--	--	1	3	1	1	2	2	6
Red hake	--	--	--	--	--	2.2	14.2	43.4	69.5	14.2	55.3	55.9
Silver hake	--	--	--	--	--	1.2	72.5	6.3	14.2	10.4	10.9	14.7
Little skate	--	--	--	--	--	--	--	--	0.3	--	0.5	--
Big skate	--	--	--	--	--	--	--	--	--	0.8	4.0	--
Haddock	--	--	--	--	--	10.7	--	1.4	1.0	0.8	7.0	8.4
Eel pout	--	--	--	--	--	23.0	0.6	2.9	0.8	0.1	1.1	0.6
Longhorn sculpin	--	--	--	--	--	7.5	0.1	--	0.8	--	2.0	0.6
Angler	--	--	--	--	--	12.7	6.1	7.6	--	--	--	0.1
Dab	--	--	--	--	--	--	1.0	9.3	3.3	3.2	2.1	2.5
Sand flounder	--	--	--	--	--	--	--	--	--	--	--	0.1
Yellowtail flounder	--	--	--	--	--	6.6	--	--	1.1	--	2.0	0.5
Blackback flounder	--	--	--	--	--	--	--	--	--	--	--	0.1
Greysole	--	--	--	--	--	--	--	0.1	--	1.1	0.2	0.3
Ocean perch	--	--	--	--	--	--	--	4.6	0.2	0.1	--	0.5
Sea raven	--	--	--	--	--	--	--	--	--	--	--	0.1
Spiny dogfish	--	--	--	--	--	--	5.3	17.0	--	4.0	--	2.4
Wrymouth	--	--	--	--	--	--	--	--	--	1.7	--	--
Blueback	--	--	--	--	--	--	--	--	--	31.6	2.8	0.9
Alewife	--	--	--	--	--	--	--	--	--	--	2.7	0.4
Herring	--	--	--	--	--	8.7	0.2	1.2	7.7	24.4	--	0.7
Butterfish	--	--	--	--	--	--	--	--	--	6.4	--	--
Lumpfish	--	--	--	--	--	--	--	3.4	--	--	--	--
Cod	--	--	--	--	--	27.3	--	--	0.2	--	9.4	10.7
Three-bearded rockling	--	--	--	--	--	--	--	2.9	0.8	0.9	--	0.1
Conger eel	--	--	--	--	--	--	--	--	--	--	--	0.4

[1] Based on 1957 samples.

TABLE 14.--SPECIES COMPOSITION, IN POUNDS, OF GLOUCESTER INDUSTRIAL TRAWL-FISH LANDINGS FROM THE STELLWAGEN BANK AREA, BY MONTHS, 1958

[In thousands of pounds + indicates less than 1,000 pounds]

Species	Jan.	Feb.	March	April	May[1]	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Red hake	--	--	--	--	4	18	14	178	284	110	206	470
Silver hake	--	--	--	--	2	10	73	26	58	80	41	124
Little skate	--	--	--	--	--	--	--	--	1	--	2	--
Big skate	--	--	--	--	--	--	--	--	--	6	15	--
Haddock	--	--	--	--	21	85	--	6	4	6	26	71
Eel pout	--	--	--	--	45	183	1	12	3	1	4	5
Longhorn sculpin	--	--	--	--	15	60	+	--	3	--	7	5
Angler	--	--	--	--	25	101	6	31	--	--	--	1
Dab	--	--	--	--	--	--	1	38	13	25	8	21
Sand flounder	--	--	--	--	--	--	--	--	--	--	--	1
Yellowtail flounder	--	--	--	--	13	53	--	--	4	--	7	4
Blackback flounder	--	--	--	--	--	--	--	--	--	--	--	1
Greysole	--	--	--	--	--	--	--	+	--	8	1	3
Ocean perch	--	--	--	--	--	--	--	19	1	1	--	4
Sea raven	--	--	--	--	--	--	--	--	--	--	--	1
Spiny dogfish	--	--	--	--	--	--	5	70	--	31	--	20
Wrymouth	--	--	--	--	--	--	--	--	--	13	--	--
Blueback	--	--	--	--	--	--	--	--	--	244	10	8
Alewife	--	--	--	--	--	--	--	--	--	--	10	3
Herring	--	--	--	--	17	69	+	5	31	188	--	6
Butterfish	--	--	--	--	--	--	--	--	--	49	--	--
Lumpfish	--	--	--	--	--	---	--	14	--	--	--	--
Cod	--	--	--	--	53	217	--	--	1	--	35	90
Three-bearded rockling	--	--	--	--	--	--	--	12	3	7	--	1
Total	--	--	--	--	195	796	100	411	406	769	372	842

[1] Based on June samples.

TABLE 15.--SPECIES COMPOSITION, IN PERCENT BY WEIGHT, OF GLOUCESTER INDUSTRIAL TRAWL-FISH LANDINGS FROM THE NAUSET AREA, BY MONTH, 1958.

[+ indicates less than 0.1 percent]

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.[1]	Dec.
Number of samples	--	--	--	--	4	2	3	4	6	1	1	--
Red hake	--	--	--	--	65.7	54.3	78.2	80.0	60.3	21.5	66.7	--
White hake	--	--	--	--	--	--	--	--	0.8	--	--	--
Silver hake	--	--	--	--	20.9	20.6	6.6	8.4	8.3	14.5	--	--
Little skate	--	--	--	--	0.1	0.2	--	0.1	0.1	--	0.4	--
Big skate	--	--	--	--	--	2.6	--	0.4	0.8	--	--	--
Haddock	--	--	--	--	2.0	3.1	0.3	1.5	1.8	--	12.5	--
Spotted hake	--	--	--	--	--	--	--	--	--	0.1	--	--
Eel pout	--	--	--	--	6.0	6.2	4.9	3.7	3.0	--	2.5	--
Longhorn sculpin	--	--	-	--	0.4	--	+	0.3	0.5	7.5	0.5	--
Sea robin	--	--	--	--	--	--	--	--	--	1.0	--	--
Angler	--	--	--	--	0.2	--	5.9	0.1	3.2	8.4	0.5	--
Weakfish	--	--	--	--	--	--	--	--	--	0.1	--	--
Dabs	--	--	--	--	2.0	0.3	0.6	0.7	0.9	0.4	0.9	--
Four-spot flounder	--	--	--	--	--	--	--	--	+	1.0	--	--
Yellowtail folunder	--	--	--	--	--	--	--	--	0.5	--	--	--
Greysole	--	--	--	--	0.2	--	0.3	--	--	--	0.2	--
Ocean pearch	--	--	--	--	0.2	--	--	--	+	--	--	--
Sea raven	--	--	--	--	--	--	--	0.4	0.2	--	--	--
Spiny dogfish	--	--	--	--	0.2	1.1	--	0.2	5.7	--	4.8	--
Shad	--	--	--	--	--	--	--	--	--	--	4.2	--
Blueback	--	--	--	--	0.2	--	--	0.6	3.6	42.4	4.7	--
Alewife	--	--	--	--	--	--	--	--	0.2	--	--	--
Herring	--	--	--	--	1.4	3.1	3.2	3.3	9.5	0.8	1.5	--
Butterfish	--	--	--	--	--	--	--	0.1	0.1	1.3	--	--
Squid	--	--	--	--	--	--	--	--	0.1	--	--	--
Cod	--	--	--	--	0.2	8.6	--	0.1	+	--	--	--
Three-bearded rockling	--	--	--	--	0.4	--	--	0.1	0.2	1.0	0.6	--

[1] Based on 1957 samples.

TABLE 16.--SPECIES COMPOSITION, IN POUNDS, OF GLOUCESTER INDUSTRIAL TRAWL-FISH LANDINGS FROM THE NAUSET AREA, BY MONTH, 1958.

[In thousands of pounds. + indicates less than 1,000 pounds]

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Red hake	--	--	--	--	834	960	203	1,366	1,107	541	473	--
White hake	--	--	--	--	--	--	--	--	15	--	--	--
Silver hake	--	--	--	--	265	364	17	143	152	365	--	--
Little skate	--	--	--	--	1	4	--	2	2	--	3	--
Big skate	--	--	--	--	--	46	--	7	15	--	--	--
Haddock	--	--	--	--	25	55	1	26	33	--	89	--
Spotted hake	--	--	--	--	--	--	--	--	--	3	--	--
Eel pout	--	--	--	--	76	110	13	63	55	--	18	--
Longhorn sculpin	--	--	--	--	5	--	+	5	9	189	4	--
Sea robin	--	--	--	--	--	--	--	--	--	25	--	--
Angler	--	--	--	--	3	--	15	2	59	211	4	--
Weakfish	--	--	--	--	--	--	--	--	--	3	--	--
Dabs	--	--	--	--	25	5	2	12	17	10	6	--
Four-spot flounder	--	--	--	--	--	--	--	--	+	25	--	--
Yellowtail founder	--	--	--	--	--	--	--	--	9	--	--	--
Greysole	--	--	--	--	3	--	1	--	--	--	1	--
Ocean perch	--	--	--	--	3	--	--	--	+	--	--	--
Sea raven	--	--	--	--	--	--	--	7	4	--	--	--
Spiny dogfish	--	--	--	--	3	19	--	3	105	--	34	--
Shad	--	--	--	--	--	--	--	--	--	--	30	--
Blueback	--	--	--	--	3	--	--	10	66	1,066	33	--
Alewife	--	--	--	--	--	--	--	--	4	--	--	--
Herring	--	--	--	--	18	55	8	56	174	20	11	--
Butterfish	--	--	--	--	--	--	--	2	2	33	--	--
Squid	--	--	--	--	--	--	--	--	2	--	--	--
Cod	--	--	--	--	3	152	--	2	+	--	--	--
Three-bearded rockling	--	--	--	--	5	--	--	2	4	25	4	--
Total	--	--	--	--	1,272	1,770	260	1,708	1,834	2,516	710	--

TABLE 17.--TOTAL POUNDS AND PERCENT OF EACH SPECIES LANDED IN THE INDUSTRIAL TRAWL CATCH, BY PORT AND FISHING AREA, 1958.

[In thousands of pounds. + indicates less than 0.1 percent]

Species	Point Judith						New Bedford		Total No Mans	
	Offshore		Inshore		No Mans		No Mans			
	Pounds	Percent	Pounds	Percent	Pounds	Percent	Pounds	Percent	Pounds	Percent
Red hake	8,753	33.2	4,666	21.4	16,356	55.3	24,570	57.6	40,926	56.7
White hake	117	0.4	57	0.3	6	+	12	+	18	+
Silver hake	4,784	18.1	4,850	22.2	4,120	13.9	5,995	14.0	10,115	14.0
Little skate	2,165	8.2	1,939	8.9	1,160	3.9	1,911	4.5	3,071	4.2
Big skate	1,299	4.9	1,473	6.8	3,536	12.0	2,190	5.1	5,726	7.3
Immature skate	69	0.3	--	--	47	0.2	28	0.1	75	0.1
Spotted hake	2	+	4	+	--	--	--	--	--	--
Eel pout	3,101	11.8	1,149	5.3	785	2.6	1,946	4.6	2,731	3.8
Longhorn sculpin	280	1.1	445	2.0	198	0.7	559	1.3	757	1.0
Sea robin	386	1.5	958	4.4	205	0.7	192	0.4	397	0.5
Striped sea robin	2	+	31	0.1	--	--	--	--	--	--
Angler	1,764	6.7	2,370	10.9	879	3.0	1,018	2.4	1,897	2.6
Haddock	--	--	--	--	--	--	--	--	--	--
Ocean perch	--	--	--	--	--	--	--	--	--	--
Four-spot flounder	140	0.5	137	0.6	356	1.2	415	1.0	771	1.1
Sand flounder	228	0.9	185	0.8	141	0.5	278	0.6	419	0.6
Gulf stream flounder	3	+	--	--	--	--	--	--	--	--
Yellowtail flounder	362	1.4	1	+	59	0.2	144	0.3	203	0.3
Blackback flounder	109	0.4	176	0.8	97	0.3	144	0.3	244	0.3
Dabs	--	--	--	--	--	--	--	--	--	--
Greysole	--	--	--	--	--	--	--	--	--	--
Sea raven	23	0.1	19	0.1	--	--	--	--	--	--
Spiny dogfish	1,818	6.9	1,700	7.8	576	1.9	1,402	3.3	1,978	2.7
Smooth dogfish	137	0.5	651	3.0	3	+	6	+	9	+
Barndoor skate	238	0.9	29	0.1	217	0.7	472	1.1	689	1.0
Brier skate	--	--	--	--	2	+	5	+	7	+
Shad	--	--	4	+	--	--	--	--	--	--
Alewife	325	1.2	517	2.4	130	0.4	212	0.5	342	0.5
Menhaden	--	--	2	+	--	--	--	--	--	--
Herring	40	0.2	103	0.5	5	+	14	+	19	+
Scup	96	0.4	117	0.5	70	0.2	345	0.8	415	0.6
Butterfish	128	0.5	198	0.9	570	1.9	764	1.8	1,334	1.8
Sea bass	--	--	2	+	--	--	--	--	--	--
Blueback	--	--	--	--	--	--	--	--	--	--
Cod	--	--	--	--	--	--	1	+	1	+
Cunner	--	--	20	0.1	7	+	--	--	7	+
Three-bearded rockling	--	--	1	+	--	--	14	+	14	+
Conger eel	--	--	--	--	46	0.2	4	+	50	0.1
Weakfish	--	--	--	--	--	--	--	--	--	--
Squid	--	--	--	--	--	--	--	--	--	--
Wrymouth	--	--	--	--	--	--	--	--	--	--
Lumpfish	--	--	--	--	--	--	--	--	--	--
Total	26,369	--	21,804	--	29,571	--	42,644	--	72,215	--

TABLE 17.--TOTAL POUNDS AND PERCENT OF EACH SPECIES LANDED IN THE INDUSTRIAL TRAWL CATCH, BY PORT AND FISHING AREA, 1958--Continued

[In thousands of pounds. + indicates less than 0.1 percent]

Species	Gloucester						Grand total	
	Ipswich		Nauset		Stellwagen			
	Pounds	Percent	Pounds	Percent	Pounds	Percent	Pounds	Percent
Red hake	1,409	57.1	5,484	54.4	1,284	33.0	62,522	45.7
White hake	--	--	15	0.1	--	--	207	0.1
Silver hake	316	12.8	1,306	13.0	414	10.6	21,785	15.9
Little skate	8	0.3	12	0.1	3	0.1	7,198	5.3
Big skate	12	0.5	68	0.7	21	0.5	8,599	6.3
Immature skate	--	--	--	--	--	--	144	0.1
Spotted hake	--	--	3	+	--	--	9	+
Eel pout	56	2.3	335	3.3	254	6.5	7,626	5.6
Longhorn sculpin	54	2.2	212	2.1	90	2.3	1,838	1.3
Sea robin	+	+	25	0.2	--	--	1,766	1.3
Striped sea robin	--	--	--	--	--	--	33	+
Angler	149	6.0	294	2.9	164	4.2	6,638	4.9
Haddock	42	1.7	229	2.3	219	5.6	490	0.4
Ocean perch	28	1.1	3	+	25	0.6	56	+
Four-spot flounder	--	--	25	0.2	--	--	1,073	0.8
Sand flounder	--	--	--	--	1	+	833	0.6
Gulf stream flounder	--	--	--	--	--	--	3	+
Yellowtail flounder	20	0.8	9	0.1	81	2.1	676	0.5
Blackback flounder	1	+	--	--	1	+	531	0.4
Dabs	111	4.5	77	0.8	106	2.7	294	0.2
Greysole	5	0.2	5	+	12	0.3	22	+
Sea raven	+	+	11	0.1	1	+	54	+
Spiny dogfish	28	1.1	164	1.6	126	3.2	5,814	4.2
Smooth dogfish	8	0.3	--	--	--	--	805	0.6
Barndoor skate	--	--	--	--	--	--	956	0.7
Brier skate	--	--	--	--	--	--	7	+
Shad	21	0.8	30	0.3	--	--	55	+
Alewife	--	--	4	+	13	0.3	1,201	0.9
Menhaden	7	0.3	--	--	--	--	9	+
Herring	71	2.9	342	3.4	316	8.1	891	0.7
Scup	--	--	--	--	--	--	628	0.5
Butterfish	1	+	37	0.4	49	1.3	1,747	1.3
Sea bass	--	--	--	--	--	--	2	+
Blueback	88	3.6	1,178	11.7	262	6.7	1,528	1.1
Cod	22	0.9	157	1.6	396	10.2	576	0.4
Cunner	--	--	--	--	--	--	27	+
Three-bearded rockling	13	0.5	40	0.4	23	0.6	91	0.1
Conger	--	--	--	--	3	0.1	53	+
Weakfish	--	--	3	+	--	--	3	+
Squid	--	--	2	+	--	--	2	+
Wrymouth	--	--	--	--	13	0.3	13	+
Lumpfish	--	--	--	--	14	0.4	14	+
Total	2,470	--	10,070	--	3,891	--	136,819	--

TABLE 18.--CATCH PER TRIP OF INDUSTRIAL TRAWL FISH ON EACH OF THE PRINCIPAL FISHING AREAS, BY MONTHS, 1958

[In thousands of pounds. Number of interviewed trips in parentheses]

Month	Point Judith		No Mans	Ipswich[1]	Stellwagen	Nauset
	Offshore	Inshore				
January	12 (44)	6 (92)	--	43 (2)	--	--
February	9 (88)	3 (107)	--	8 (3)	--	--
March	12 (69)	4 (151)	10 (7)	--	--	--
April	26 (152)	4 (94)	47 (34)	8 (5)	--	--
May	60 (57)	4 (181)	60 (128)	22 (15)	22 (9)	22 (59)
June	29 (33)	7 (258)	60 (66)	12 (52)	17 (33)	38 (43)
July	44 (6)	9 (163)	35 (21)	10 (17)	17 (6)	87 (3)
August	33 (14)	12 (135)	32 (21)	20 (8)	18 (21)	29 (54)
September	32 (8)	14 (188)	32 (31)	14 (15)	19 (19)	21 (86)
October	40 (58)	13 (192)	25 (2)	13 (14)	18 (41)	24 (94)
November	24 (32)	15 (174)	31 (3)	9 (16)	14 (25)	12 (53)
December	9 (17)	7 (101)	12 (2)	15 (6)	18 (45)	--

[1] Includes southern Maine areas.

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